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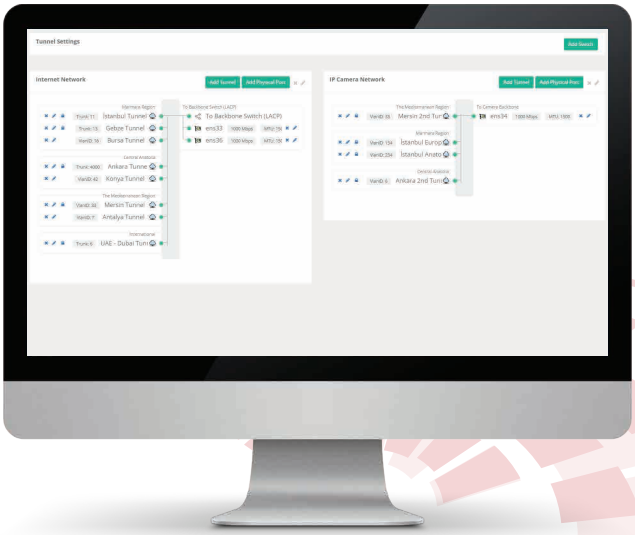
Unified Cyber Security System

EPA-TN-K2 Series
Dual Layer SD-WAN



The Antikor Dual Layer (Layer2 & Layer3) SD-WAN EPA-TN-K2 Series is a Turkish national product that provides secure virtual switching at the Layer2 level in Middle Size Enterprise networks with advanced network and security features. Thanks to its bonding feature, it transfers different types of internet (xDSL, 4.5G, metro, asymmetric fiber, etc.) to the center simultaneously. It can perform packet filtering (Layer2 Firewall) and QoS - Active Bandwidth Management in traffic.

Layer2 Communication over WAN

By extending our local network over our internet connections, we create a closed network by performing secure virtual switching (virtual switching) at the Layer2 level. It works as an uplink between switches. In short, the broadcast domains of both networks are merged.

Multiple VLAN transfer in WAN

In the Antikor Dual Layer SD-WAN solution, independent isolated Virtual Switches can be created, and they are transferred encrypted with the assigned VLANs on the other side. It allows for MAC-IP matching control.

Switching and Compatibility

Both Virtual Ports and Physical Ports have the IEEE 802.1Q VLAN feature (Untagged Port Assignment, Tagged Port Assignment and Hybrid Port Assignment). It has High Availability Cluster (Active-Passive Cluster) and Fail-over features.

Central Management and Logging

Through the Central Management System and monitoring, bulk settings can be obtained. It sends logs to all SIEM solutions in RAW, CEF, EWMM, GELF, JSON, WELF, CIM formats. It has LACP, LLDP, and Netflow Export services.

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Product Specifications

Operating Modes

- Traffic Capturing on:
  - OSI Layer 2 - Ethernet
- Tunneling over:
  - OSI Layer 3 - IPv4 & IPv6
  - OSI Layer 3 - Working Behind NAT

Virtual Switch Features

- Assigning Layer2 Tunnels as Virtual Ports
- IPsec Encryption for Layer2 Tunnels
- Physical Port Assignment
- IEEE 802.1Q VLAN for both Virtual and Physical Ports:
  - Untag Port Assignment
  - Tagged Port Assignment
  - Hybrid Port Assignment
- VLAN Enabled MAC Table
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- Spanning Tree Protocol
- Rapid Spanning Tree Protocol
- Link Layer Discovery Protocol
- NetFlow Export Service
- MAC Learning

Ethernet Interface Specifications

- 4094 IEEE 802.1Q VLANs for each port
- IEEE 802.3ad LACP
- Virtual Ethernet Interface
  - Loopback
  - VLAN subinterface

IPsec VPN

- Encryption: DES, 3DES, AES, BLOWFISH, CAST128, CAMILIA
- Authentication: MD5, SHA1, SHA256, SHA384, SHA512, 3DES, DES
- WildCard ID Support
- NAT Traversal Support
- Assigning different IPsec Profiles for each Layer2 Tunnel

Management Interface Features

- HTML5 Responsive Web Interface
  - SSL Certificate based authentication
  - Customizing the service port
- Out of Band Management Plane
- SSH Console
- Physical Console (Monitor, Keyboard)

System Performance

MAC Table Size	2.048
Layer2 Throughput (Gbps)	800 Mbps
Firewall Throughput (Gbps)	700 Mbps
IPsec Throughput (Gbps)	600 Mbps

Licensing

Number of Layer2 Tunnels	8
Number of Phys. Ports can be Assigned to a Virtual Switch	5
Number of Tunnels can be Assigned to a Virtual Switch	8
Number of VLANs for Layer2 Tunnels	256
High Availability (HA) - Cluster Support	No
Number of Addressable CPU Threads	4
Number of IPsec VPN Tunnels	8
Number of Virtual Switches	4
IEEE 802.3ad LACP Support on Virtual Switches	No
WAN Bonding	No
MTU Adaptation for WAN	Yes

Services

- Live Dashboard
- Automated Update System
- WAN Bonding (Optional)
- SNMP v2/v3 Service
- Layer2 Packet Filtering on Tunneled Traffic (Optional)
- QoS - Quality of Service on Tunneled Traffic (Optional)
- Port Grouping
- Syslog Service (RAW, CEF, EWMM, GELF, JSON, WELF, CIM)
- MAC Learning
- Authorization Management
- Isolated Virtual Switching
- NetFlow Export Service
- Incident Notification Service
  - SMS, Email, Browser Notification

Routing

- IPv4 / IPv6 Static Routing
- OSPF(Open Shortest Path First), BGP(Border Gateway) Protocols

Hardware Requirements

- Min 4 Core Processor
- Min 4 GB Ram
- Min 120 GB Solid State Disc
- Min 4 x Gigabit Ethernet Card

* Performance tests are performed with the following hardware:
  - Intel Atom E3940 Processor, 4 GB DDR3L 1866 MHz RAM

** Note: All performance values may vary depending on environmental condiditions, system configuration and equipment.

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